

Appendix A — Device Specifications and Software

MacBook mobile computer

Dimensions

- Height: 1.08 inches (2.75 cm)
- Width: 12.78 inches (32.5 cm)
- Depth: 8.92 inches (22.7 cm)
- Weight: 5.0 pounds (2.27 kg)

Connections and expansion

- MagSafe power port
- Gigabit Ethernet port
- Mini-DVI port
- FireWire 400 port (up to 400 Mbps)
- Two USB 2.0 ports (up to 480 Mbps)
- Audio line in
- Audio line out
- Kensington lock slot

Communications

- Built-in AirPort Extreme Wi-Fi wireless networking
- IEEE 802.11a/b/g/n compatible (n - draft specification)
- Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate)
- Built-in 10/100/1000BASE-T Gigabit Ethernet

Environmental Status Report

- MacBook is designed with the following features to reduce its environmental impact:
- Highly recyclable polycarbonate enclosure
- Majority of circuit board laminates are free of brominated flame retardants
- Majority of internal cables are PVC-free
- 43% smaller packaging
- Meets ENERGY STAR requirements
- EPEAT Silver rating

Display

- 13.3-inch (diagonal) glossy widescreen TFT display with support for millions of colors

Graphics and video support

- NVIDIA GeForce 9400M graphics processor with 256MB of DDR2 SDRAM shared with main memory
- Extended desktop and video mirroring: Simultaneously supports full native resolution on the built-in display and up to 1920 by 1200 pixels on an external display, both at millions of colors
- Built-in iSight camera
- Mini-DVI port

Video output options

- DVI output using Mini-DVI to DVI Adapter (not included)
- VGA output using Mini-DVI to VGA Adapter (included with Teacher devices)

Input

- Built-in full-size keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted “T” arrangement)
- Solid-state scrolling trackpad for precise cursor control; supports two-finger scrolling, tap, double-tap, and drag capabilities

Audio

- Built-in stereo speakers
- Built-in omnidirectional microphone
- Combined optical digital input/analog line in (mini-jack)
- Combined optical digital output/analog line out (mini-jack)

Processor and memory

- 2.0 GHz Intel Core 2 Duo processor with 3MB on-chip shared L2 cache running 1:1 with processor speed
- 1066 MHz frontside bus
- 2GB (two 1GB SO-DIMMs) of 667MHz DDR2 SDRAM; two SO-DIMM slots support up to 4GB

Storage

- 120GB 5400-rpm Serial ATA hard disk drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- Maximum write: 8x DVD-R, DVD+R; 4x DVD-R DL (double layer), DVD+R DL (double layer), DVD-RW, DVD+RW; 24x CD-R; 10x CD-RW
- Maximum read: 8x DVD-R, DVD+R, DVD-ROM; 6x DVD-ROM (double layer DVD-9), DVD-R DL (double layer), DVD+R DL (double layer), DVD-RW, and DVD+RW; 24x CD

Battery and power

- 55-watt-hour lithium-polymer battery
- 60W MagSafe Power Adapter with cable management system
- MagSafe power port

MAINE LEARNING TECHNOLOGY INITIATIVE

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The following list of software titles are preloaded onto the MLTI devices. Annually, an updated software image is provided to schools that includes updates to the operating system, iLife, iWork, and most other applications. Software titles listed in **bold** are provided to the MLTI through generous donations by their respective developers.

| Software Title | Description |
|----------------------------|---|
| Mac OS 10.5 Leopard | Apple's latest operating system. Each year as available, the MLTI solution will be upgraded to utilize the latest version of the Mac OS. |
| 1to1 Back up | A custom backup utility to help prevent data loss |
| Acorn | Advance image editor, similar to Adobe Photoshop. Offered to MLTI by Flying Meat http://flyingmeat.com/acorn/ . |
| Acrobat Reader | Utility program used to read PDF formatted files. |
| Address Book | A contact manager that works in conjunction with many other applications including iWork and Mail. |
| AppleScript Utility | Allow the user to write scripts and macros to facilitate workflows or automate tasks in other applications. |
| Audio MIDI Setup | Utility to manage musical instruments connected to the computer. |
| Automator | Allow the user to write scripts and macros to facilitate workflows or automate tasks in other applications. |
| Bento | A relational database application. http://www.filemaker.com/products/bento/overview.html |
| Calculator | A scientific calculator. |
| ClamXav | Anti-virus software. |
| Comic Life | A graphic novel creation tool. http://plasq.com/comiclife |
| CyberDuck | An open source, fully featured FTP/SFTP client. Users may use it to upload web pages to web servers and perform other file transfer needs. http://cyberduck.ch . Offered to MLTI by the David Kocher, the creator of CyberDuck. |
| DataStudio | Data collection and analysis suite. Includes graphing calculator. Compatible with PASCO data probes. http://www.pasco.com/datastudio/ |
| Dictionary | New Oxford English Dictionary and Oxford American Writer's Thesaurus. |
| DVD Player | A DVD disc player. |
| Firefox | Fast and popular open source web browser. http://www.mozilla.com/firefox/ |
| Freemind | A mind-mapping software written in Java. Donated to MLTI by the FreeMind Software Project. http://freemind.sourceforge.net/wiki/index.php/Main_Page |
| GarageBand | Digital recording studio. Record and edit your own music or podcasts. http://www.apple.com/ilife/garageband/ |
| GeoGebra | Geometry visualization software that allows for both geometric and algebraic input and manipulations. www.geogebra.org/ |
| Google Earth | Puts a planet's worth of imagery and other geographic information right on your desktop. http://earth.google.com . Offered to MLTI by Google Inc. |
| Google SketchUp Pro | 3D design software. http://www.sketchup.com . Offered to MLTI by Google Inc. |
| Grapher | A 2D and 3D graphing calculator as well as an equation editor. http://www.apple.com/macosx/newfeatures/over200.html |
| iCal | Calendar and to do list application. |
| iChat | Text, audio, and video chat software. |
| iDVD | DVD authoring tool. Part of iLife '09. http://www.apple.com/ilife/ |
| iMovie | Digital movie creation and editing software. Part of iLife '09. http://www.apple.com/ilife/ |
| iPhoto | Digital Photo management, image enhancement, and slideshows. Part of iLife '09. http://www.apple.com/ilife/ |
| iTunes | Digital music management and encoding. http://www.apple.com/itunes |
| iWeb | Web page creation and publishing. Part of iLife '09. http://www.apple.com/ilife/ |
| iWork '09 Keynote | Presentation software, part of Apple's iWork '09 productivity suite. http://www.apple.com/iwork/keynote/ |
| iWork '09 Numbers | Spreadsheet software: write formulas, organize data, create charts. Part of the Apple iWork '09 productivity suite. http://www.apple.com/iwork/numbers/ |

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| iWork '09 Pages | Word Processor and Page Layout. This document was created using Pages. http://www.apple.com/iwork/pages/ |
| Logger Pro | Data Collection and analysis suite. Compatible with Vernier data probes. http://www.vernier.com/ |
| Mail | Email Client and RSS reader. Synchronizes with iCal and Address Book. http://www.apple.com/macosx/features/mail.html |
| Maine Explorer | Inquiry-based science software that supports modeling and simulations. Designed by the Foundation for Blood Research and Maine Teachers, and funded by the National Science Foundation. http://www.fbr.org/ |
| MyWorld GIS | A Geographic Information System for Inquiry-Based Learning. Query, plot and analyze geographic data such as climate, geology, biodiversity, population and more. http://www.pasco.com/myworld/ |
| NeoOffice | Open source productivity suite. Includes word processing, spreadsheets, presentations, drawing, and database applications. http://www.neooffice.org |
| NetLogo | Programmable modeling environment for simulating natural and social phenomena. It is particularly well suited for modeling complex systems developing over time. http://ccl.northwestern.edu/netlogo/ |
| NoteShare | Collaborative Multimedia Digital Notebook. Create, organize, share, publish. http://www.aquaminds.com |
| OmniFocus | A professional task management tool that integrates well with iCal and Mail. http://www.omnigroup.com/applications/omnifocus/ |
| OmniGraffle | Create diagrams, process charts, quick page-layouts, website mockups or graphic design. http://www.omnigroup.com/applications/omnigraffle/ |
| OmniGraphSketcher | Combines the data plotting power of charting applications with the ease of a basic drawing program. http://www.omnigroup.com/applications/omnigraphsketcher/ |
| OmniOutliner | A flexible program for creating, collecting, and organizing information. http://www.omnigroup.com/applications/omnioutliner/ |
| OmniWeb | Fast and popular web browser. http://www.omnigroup.com/applications/omniweb/ |
| OmniDazzle | A set of fun and useful enhancements that help you highlight certain areas of your screen, create visual effects, and track the location of your mouse pointer. http://www.omnigroup.com/applications/omnidazzle/ |
| OmniDictionary | A Mac OS X client for network dictionary servers. Lookup words from multiple dictionaries and applications. http://www.omnigroup.com/applications/omnidictionary/ |
| Photo Booth | Camera application for capturing still images and video, using the built in iSight camera. http://www.apple.com/findouthow/mac/ |
| Preview | Multi-file format viewer (.pdf, .jpg, .gif, .png, .psd, and more). http://support.apple.com/kb/HT2506 |
| ProfCast | An all-in-one Podcast production tool. http://www.profcast.com/ |
| QuickTime Player | Digital media viewer application. http://www.apple.com/quicktime/ |
| Safari | Web browser with RSS feed management. http://www.apple.com/macosx/features/safari.html |
| TextEdit | Text editor capable of reading and writing text (.txt), rich text format (.rtf), and Microsoft Word (.doc and .docx) formatted files. http://support.apple.com/kb/HT2523 |
| Time Machine | A backup utility to help prevent data loss. Part of the Mac OS X. http://www.apple.com/macosx/features/timemachine.html |
| Voice Over Utility | Configuration tool with built-in screen reader for visually impaired users. Part of the Mac OS X. http://www.apple.com/accessibility/voiceover/ |